

UNIVERSITY OF MIAMI  
CURRICULUM VITAE

Date: May 7, 2004

I. PERSONAL

Name: Bernard Wendlin Steele

Office Phone: (305)-585-6510

Business Address: Jackson Memorial Hospital  
Holtz Center, Rm. 2026  
Miami, Florida 33136

Current Rank: Professor  
Fulltime Tenured

Primary Department: Pathology

Citizenship: ---

II HIGER EDUCATION

INSTITUTIONAL

University of Minnesota	MD
University of Minnesota	BA

NON-INSTITUTIONAL TRAINING

Computer Science Fellowship (University of Minnesota Medical School)	---
Forensic Pathology Fellowship (University of Miami-Dade County/ U.S. Dept of Transportation)	---
Radiation Safety (Northwestern University Continuing Education)	---

CERTIFICATION, LICENSURE:

Medical License, State of Florida	---
Certified, Medical Review Officer (MRO) American Association of Medical Review Officers	---
Diplomat of the American Board of Pathology in Clinical Pathology	---
Diplomat of the American Board of Pathology in Chemical Pathology	---
Medical License, State of Minnesota	---

III. EXPERIENCE

ACADEMIC

University of Miami	Professor Dept of Pathology	June 1998-Present
University of Miami	Associate Professor Dept of Pathology	1981-1998
University of Miami	Assistant Professor Dept of Pathology	1978-1981
University of Minnesota	Assistant Professor Dept of Laboratory Medicine and Pathology	1974-1978
Florida International University	Courtesy Professor Dept of Med Lab Sci	1997-2001

PROFESSIONAL

Jackson Memorial Hosp.	Director, Core Lab	1996-Present
	Transfusion Service Attending	1999-Present
.	Director Transfusion Service	2001-2002

	Director, Clinical Chemistry, Special Chem, Toxicology and Critical Care)	1978-1996
	Acting Director Immunology	Jul-Dec, 1989
University of Miami	Director, UM Forensic Laboratory	1995-present
	Director, Mailman Center for Child Development Biochemical Genetics Laboratory	1996-1999
	Co-Investigator, Renal GU Abnormalities and In Utero Cocaine exposure and Neurodevelopmental Outcome of In utero Cocaine Exposure (NIDA 1-RO1-DA06556)	1991-1998
Florida International University	Medical Director/ Medical Advisor NAACLS-BSMT (Medical Technologist)	1997-1999
Veterans Administration	Consultant, V.A. Cooperative Study on Vasodilator Therapy of Myocardial Infarction	1978-1980
	Chief, Clinical Chemistry Minneapolis VA Hosp	1974-1978
	Co-Director, Core Laboratory V.A. Cooperative Study, CPK Analysis	1975-1978
	Co-Director, Core Laboratory V.A. Cooperative Study on Vasodilator Therapy of Myocardial Infarction	1975-1978
	Co-Principal Investigator NHLI-VA Cooperative Study	1974-1975

## #8, Mild Hypertension

	Co-Principal Investigator V.A. Cooperative Study for the Effect of LAAM Methadone on Testosterone Levels	1974
	Investigator- V.A Cooperative Study on Laboratory Values.	1974
University of Minnesota	Chief Resident Laboratory Medicine	---
	Resident in Laboratory Medicine	---
UCLA(Wadsworth VA)	Intern (Rotating)	---

## MILITARY

USAR-MC	Major, Medical Director of the Clinical Lab of the 5501 USAR	1971-1978
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IV PUBLICATIONS:MONOGRAPHS

Raymon L, Steele B, and Walls HC. Case notes: Dronabinol and driving under the influence. ToxTalk 22:6, 1999.

Steele BW. Is your ACTH method too specific? Educational Enhancement. CAP Tumor Marker Survey. College of American Pathologists, Northridge, IL, 1998.

Steele BW. Thyroxine testing challenge: capturing consistency, in Summing Up, Savage RA (ed.) CAP Today. Vol. 12, No 10, College of American Pathologists, Northridge, IL, October 1998.

Steele BW. Thyroxine Testing, Can We Find Truth? Educational Enhancement. CAP Ligand Survey. College of American Pathologists, Northridge, IL, 1996.

Steele BW and Bandstra ES: Meconium as a sample for in utero exposure to cocaine. ASCP Check Sample No DM 94-4. Editor, B. Gerson, MD, American Society of Clinical Pathologists, Chicago 1994.

Steele BW and Wunsch C: Alanine Aminotransferase: a review of methods. ASCP Check Sample. Core Chemistry Vol. 9. November 7, 1991.

Steele BW, and Wunsch C: Alanine Aminotransferase-a review. ASCP Check Sample. Core Chemistry Vol 2. November 11, 1986.

Zilleruelo G, Sultan S, Bancalari B, Steele B, and Strauss J: Hydrogen ion balance in the neonate. Neonatal Kidney and Fluid-Electrolytes. Strauss, J. (ed), Marinus Nighoff Publishers, Boston, 1983.

Butler TJ, Civantos F, Steele BW, Airan RS and Klotzsch SG: Aspartate aminotransferase, AST(provisional). Selected Methods for a Small Clinical Laboratory. WR Faulkner, S Meites, eds. American Association for Clinical Chemistry, Washington, DC, 20006, 1982.

Perry HM, Jr, Goldman AI, Schnaper HW, Fitz AE, Frolich ED, Steele BW, Richman HF, and Lavin MA: Effects of chlorthalidone and reserpine in the treatment of mild hypertension: induced changes with emphasis on blood pressure and Chemistry. WHO Conference on Mild Hypertension, Susono, Japan. Pitman Publishing Co. 1979

Koehler DF, Steele BW and Azar MM: "Getting a head start in the proficiency-testing game," *Sharpening Laboratory Management Skills*. Friedman, EM(editor), Medical Economics Co., Oradoll, NJ, 1978.

Steele BW: Comments on glucose methodologies, Selected Methods of Clinical Chemistry, Vol. 8. Cooper G(editor), American Association for Clinical Chemistry, Publisher (1977).

#### JURIED OR REFEREED JOURNAL ARTICLES

Steele BW. Wang E. Soldin SJ. Klee G. Elin RJ. Witte DL. College of American Pathologists Study. A longitudinal replicate study of immunosuppressive drugs: a College of American Pathologists study. Arch Pathol Lab Med. 127:283-8, 2003.

McLaughlin GE. Schober M. Perez M. Ruiz P. Steele BW. Abitbol C. Benefit of theophylline administration in tacrolimus-induced nephrotoxicity in rats. Pediatric Nephrology. 18(9):860-4, 2003.

Soldin SJ, Steele BW, Witte DL Wang E, and Elin RJ. Lack of specificity of cyclosporine immunoassays: results of a College Of American Pathologists Study. Arch Pathol Lab Med.. 127:19-22, 2003.

Chin-Yee I, Brown W, Johnston K, Keeney M, Steele BW, Wolfe N, Kaplan S  
Identification and Enumeration of Nucleated Red Blood Cells on the Beckman  
Coulter LH 750. Lab Hematol 8:210-217, 2002

Steele BW, Wang E, Palomaki G, Klee GG, Elin RJ, Soldin SJ and Witte DL An  
Evaluation of Analytical Goals for Assays of Drugs: A College of American  
Pathologists Therapeutic Drug Monitoring Survey Study, Arch Pathol Lab  
Med. 125:729-735, 2001.

Steele BW, Wang E, Palomaki G, Klee GG, Elin RJ and Witte DL, Sources of  
Variability: a College of American Pathologists therapeutic drug monitoring  
survey study. Arch Pathol Lab Med. 125:183-190, 2001.

Steele BW, Wu NC, and Whitcomb C. White blood cell and platelet counting  
performance by hematology analyzers: a critical evaluation. Lab Hematol  
7:255-266, 2001.

Bandstra ES. Morrow CE. Anthony JC. Churchill SS. Chitwood DC. Steele BW.  
Ofir AY. Xue L. Intrauterine growth of full-term infants: impact of prenatal  
cocaine exposure. Pediatrics. 108(6):1309-19, 2001.

Soldin SJ and Steele BW, Mini-Review: Therapeutic Drug Monitoring in  
Pediatrics. Clin Biochem. 33:333-335, 2000.

Raymon, LP, Steele, BW and Walls HC Benzodiazepines in Miami-Dade County,  
FL Rohypnol® in Driving Under the Influence (DUI) cases (1995-1998):  
GC/MS confirmation, patterns of use, psychomotor impairment and results of  
Florida Legislation. J Anal Toxicol 23:490-499, 1999.

Ruiz P, Berho M, Steele, BW, and Hao L. Peripheral human T lymphocyte  
maintenance of immune functional capacity and phenotypic characteristics  
following *in vivo* cocaine exposure. Clin. Immunol Immunopathol. 88:271-  
276, 1998.

Steele, BW, Witte, DL, Whitley, RJ, Klee, GG, and Chan, DW. The effects of  
modifying proficiency testing materials on thyroid function test results - a  
College of American Pathologists Ligand Assay Survey. Arch Pathol Lab  
Med. 121:1241-1246, 1997.

Ruiz, P., Nassiri, M., Steele, B. and A. Viciano. Cytofluorographic evidence that  
thymocyte dipeptidyl peptidase IV (CD26) activity is altered with stage of  
ontogeny and apoptotic status. Cytometry 23:322-9, 1996.

Ruiz, P, Cleary, T, Nassiri, M, and Steele, B. Human T lymphocyte subpopulation  
and NK cell alterations in persons exposed to cocaine. Clin. Immunol.  
Immunopathol. 70:245-250, 1994.

- Burkett, G, Banstra, ES, Steele, BW, Cohen, J, and Palow, DC: Cocaine Related Maternal Death Am J Obstet Gynecol 163,40-1, 1990.
- Welch, E, Fleming, LE, Peyser, I, Greenfield, W, Steele, BW, and Bandstra, ES. Rapid cocaine screening of urine in a newborn nursery. J. Pediatr. 123:468-70, 1993.
- Steele, BW, Bandstra, ES, WU, NC, Hime, GW and Hearn, WL. m-Hydroxy-benzoyllecgonine: an important contributor to the immunoreactivity in assays for benzoyllecgonine in meconium. J. Anal. Toxicol.17:348-352, 1993.
- Buechter KJ. Arnold M. Steele B. Martin L. Byers P. Gomez G. Zeppa R. Augenstein J: Serum amylase and lipase in the evaluation of blunt abdominal trauma. Am Surg 56:204-8, 1990.
- Eisen LN, Field TM, Bandstra, ES, Roberts JP, Marrow, C, Larson, SK, and Steele, BW. Perinatal cocaine effects on neonatal stress behavior and performance on the Brazelton scale, Pediatrics 88:477-480, 1991.
- Jonas MM, Schiff ER, O'Sullivan MJ, De Medina M, Reddy KR, Jeffers LJ, Fayne T, Roach KC, and Steele BW: Failure of center for disease control criteria to identify hepatitis b infections in a large municipal obstetrical population. Ann Int Med, 107:335, 1987.
- Zilleruelo G. Sultan S. Bancalari E. Steele B. Strauss J. Renal bicarbonate handling in low birth weight infants during metabolic acidosis. Biology of the Neonate. 49:132-9, 1986.
- O'Connell MT, Becker DM, Steele BW, et al: Plasma fibronectins in medical ICU patients. Crit Care Med, 12:479, 1984.
- Steele BW, Hills LP, Hellman RL, Civantos F, and Kent J: Automated fibronectin assay using light-scattering optics on a centrifugal analyzer. Clin Biochem, 17:157, 1984.
- Fruendlich M, Cynamon H, Tamer A, Steele B, Zilleruelo G and Strauss J: Management of chloramphenicol intoxication by charcoal hemoperfusion in infancy. J Ped, 103:485, 1983.
- From AHL, Quarfoth GJ, Steele BW and Ahmed K: Erythrocyte Na<sup>+</sup>, K<sup>+</sup>-ATPase and serum digoxin concentrations. Eur J Clin Pharmacol, 24:807, 1983.
- Castro A. and Steele B: A fluorescent immunoassay for theophylline; description and comparison to enzyme immunoassay. Clin Biochem, 16:281, 1983.
- Kessler KM, Ho-Tung P, Steele B, Silver J, Pickoff A, Narayanan S, and Myerburg RJ: Simultaneous quantitation of quinidine, procainamide, and n-

acetylprocainamide in serum by gas-liquid chromatography with a nitrogen-phosphorus selective detector. Clin Chem 28:1187, 1982.

Gonzalez G, Cyd-Amador A, Steele B, and Castro A: Results by new fluorescent immunoassay for phenytoin compared with those by enzyme immunoassay, liquid chromatography, and discrete analysis (Dupont ACA). Clin Chem 28:1494-6. 1982.

Mittleman R, Steele B, And Moskowitz L: Postmortem vitreous humor iron in fetal acute iron toxicity. J Forensic Sci, 27:955, 1982.

Castro A, and Steele BW: Drug radioimmunoassay: a review. Ligand Review 3:20-23, 1981.

Ma KW, Brown DC, Steele BW, and From AH. Serum creatine kinase MB isoenzyme activity in long-term hemodialysis patients. Archives of Internal Medicine. 141(2):164-6, 1981.

Steele BW, Koehler DF, Kuba K and Azar MM: An enzymatic approach to lipoprotein quantification. Amer J Clin Path, 73:75-8, 1980.

Goldman AI. Steele BW. Schnaper HW. Fitz AE. Frohlich ED. Perry HM Jr. Serum lipoprotein levels during chlorthalidone therapy. A Veterans Administration-National Heart, Lung, and Blood Institute cooperative study on antihypertensive therapy: mild hypertension. JAMA. 244(15):1691-5, 1980

Connelly D and Steele BW: Laboratory utilization: problems and solutions (editorial). Archives of Pathology and Laboratory Medicine, 104:59, 1980.

Bauer HR, Steele BW, Preisesberger KF, and Gobel FL: Serum myocardial creatinine kinase(CK-MB) after coronary arterial bypass surgery. Amer J Card, 44:679-86, 1979.

Koehler DF, Steele BW, Azar MM, Kuba K and Dempsey ME: An enzymatic triglyceride method suitable for long-term population studies. Clin Chem, 24:326-9, 1978.

Steele BW, Gobel FL, Nelson Rr and Yasmineh WG: Serum creatinine kinase isoenzyme activity following cardiac catheterization, exercise stress testing and myocardial biopsy. Chest 73:489-96, 1978.

Perry HM, Schnaper HW, Lavin MI, Goldman AI, Fitz AE Frolich ED, Richman HG and Steele BW: Evaluation of drug treatment in mild hypertension: VA-NHLBI feasibility trial. Annals of the New York Academy of Sciences, 304:267, 1978.



Yasmineh WG, Pyle RB, Cohn JN, Nicoloff DM, Hanson NP and Steele BW:  
Serial serum creatinine phosphokinase MB isoenzyme activity after myocardial  
infarction: studies in the baboon and man. *Circulation*, 55:733-7, 1977.

Schnaper H, Fitz A, Frolich E, Goldman A, Perry HM, and Steele BW:  
Chlorthalidone and serum cholesterol(letter to the editor), *Lancet* 2(8032):295,  
1977.

Steele BW, Schauble MK, Becketl JM and Bearman JE: Evaluation of clinical  
chemistry laboratory performance in twenty V.A. Hospitals, *Am J Clin Path*,  
67:594-602, 1977.

Steele BW, Nord M, Hultman B, and Yasmineh WG: Worthington CK isoenzyme  
system versus the method of Yasmineh and Hanson. (letter to the editor). *Clin*  
*Chem*, 22: 1757, 1976.

Steele BW, Koehler DF, Azar MM, Blaszkowki TP, Kuba K and Dempsey ME:  
Enzymatic cholesterol determinations of high density lipoprotein fractions  
prepared by a precipitation technique, *Clin Chem* 22:98-101, 1976.

Steele BW, Koehler DF, Blaszkowki TP, and Azar MM: An example of  
lyophilized protein-based material not simulating patient sera. *Clin Chem*,  
21:1812-4, 1975.

O'Carrol D, Statland BE, Steele BW, and Burke D: Chemical inhibition method in  
determining the alkaline phosphatase isoenzymes in human serum. *Am J Clin*  
*Path*, 63:564, 1975.

Steele BW, Brown DM and Benson ES: The interpretation of renal function tests.  
*Geriatrics*, 29:63-6, 1974.

#### ABSTRACTS:

Steele BW, Palmer-Toy DE, Elin RJ, Klee GG, Wang E. Long Term Within  
Laboratory Precision of Cortisol, Thyroxine, Free Thyroxine and TSH Assays  
Based on a CAP Fresh Frozen Serum Study (Accepted for AACC Annual  
Meeting)

Steele BW, Wang E. Soldin SJ, Sokoll LJ, Winter WE. Analytical Bias and  
Matrix Effects for Thyroxine and Triiodothyronine: A Comparison of 2003  
College of American Pathologists Ligand and Chemistry Surveys (Accept for  
AACC Annual Meeting)

Steele BW, Walls HC and Raymon, LP. Flunitrazepam GC/MS confirmation in  
driving under the influence (DUI) urine samples: analytical challenges and a  
four year experience from Miami-Dade County, Florida USA. (abst). *Clin*  
*Chem Lab Med* 37: S318, 1999.

Raymon LP, Garri, J, Kirton O, Shatz D, Wall HC, and Steele BW, Alcohol and drug use in emergency room (ER) admissions and driving under the influence (DUI) cases: a comparative study (abst). Clin Chem 45 (#6, Sup): A126, 1999.

Lineback JA, Lim CE, Shen PF, and Steele BW. Frequency of the hereditary hemochromatosis C282Y mutation in gestational patients of Hispanic and African ethnicity in South Florida (USA). Clin Chem Lab Med 37: S137, 1999.

Bandstra, ES, Churchill SS, O'Sullivan MJ, Morro CE, Steele BW, Gomez O.W., Duncan RC, and Chitwood DD. HIV and risk behaviors in African-American parturient women (abst.). NIDA Research Monograph. Problems of Drug Dependence, 1997, Proceedings of the 59th Annual Scientific Meeting, College on Problems of Drug Dependence, Inc. Rockville Maryland.

Jorda M, Mailhot S, Wu NCH, Cleary T, and Steele BW. Identification of mycobacterial species from Bactec 7H11 by gas-liquid chromatography-mass spectrometry (abst). AJCP 108:351. 1997

Steele BW, Raymon LP and Walls, HC. Analysis of urinary benzodiazepines and metabolites in "driving under the influence" cases: the need for gas chromatography/mass spectrometry (abst). Clin Chem. 43:S216 1997.

Smith J, Lucas F, and Steele BW. Flow Cytometry as a sensitive method to study cell function using Coulter® CellProbe™ reagents. (abst) Experimental Biology '97. Federation of American Societies for Experimental Biology, Bethesda, M.D., p 110. 1997.

Walls HC, Steele BW, Maclure R, and Hearn LW. The confirmation of benzodiazepines in DUI cases by CG/MS. (abst). J. of Anal. Toxicol 21: 85, 1997.

Steele BW, Lucas FJ, Jaffe GE, and Carter JH. Patterns of enzyme activities of WBC's as measured by flow (abst). Clin Chem 42: S103, 1996.

Steele BW, Lucas FJ, Jaffe GE, and Carter JH. Enzyme activities of WBC's in viral versus bacterial disease as measured by flow cytometry. (abst) Proceedings of the XVI International Congress of Clinical Chemistry, SM Martin and SP Halloran (editors). The Association of Clinical Biochemists, Cambridge, UK, p. 69, 1996.

Steele BW, Bandstra ES, WU NC, and Hearn WL. Meconium Benzoylcegonine Levels in Stillborn Premature Fetuses (abst). Am J Clin Path. 104:506, 1996.

Steele B, Hamilton M, Griffin D, Lucas F, and Carter J. Differences in Leukocyte Enzyme Activity in HIV-1+ Patients with and Without TB (abst). Clin Chem. 41: S239, 1995. Hamilton M, Steele B, Galiounghi A, Lucas F, and Carter J.

- Assessing newborn health using cord blood leukocyte enzyme activities detected with novel fluorogenic reagents(abst). Clin Chem. 41: S239, 1995.
- Hamilton M, Steele B, Kuylen N, Lucas F, and Carter J. The use of novel fluorogenic enzyme substrates to detect nucleated red blood cells (abst). Clin Chem. 41: S239, 1995.
- Steele BW, Bandstra ES, Wu NC, and Hearn WL. Benzoylecgonine and other cocaine metabolites in the meconium of premature infants(abst) . Am J Clin Path. 101:387, 1994.
- Woodard MD, Steele BW, Shukla RS, Lucas FJ, and Carter JH. Neoplastic enzyme patterns by flow cytometry (abst). Am J Clin Path 100:180-181, 1993.
- Hamann S, Erickson K, Lott J, Steele B , and Keyes L. Multi-laboratory evaluation of the Kodak Ektachem 250 analyzer(abst). Clin Chem 39: 1220, 1993.
- Steele BW, Hearn WL, Bandstra ES, Wu, NC, Hime, GW, and Moss, JA, The detection of m -hydroxybenzoylecgonine and cinnamoylecgonine in meconium (abst). Clin Chem 39: 1241-1242, 1993.
- Lucas FL, Galiounghi A, Carr SA, Landrum E, Hoff P, Carter J, Steele BW, and Whitcomb C.C. Measurement of proteolytic enzymatic activity of lymphocytes, monocytes and granulocytes by flow cytometry (abst). Clin Chem 39: 1195-1196, 1993.
- Woodard, MD, Steele, BW, Shukla, RS, Lucas, FJ, and Carter, JH. Study of neoplastic enzyme patterns by flow cytometry(abst). Clin Chem 39: 1194, 1993.
- Steele, BW, Lucas, FJ, and Carter, JH. The flow cytometric measurement of proteolytic enzymatic activity of lymphocytes of septic patients(abst). Clin Chem 39: 1159, 1993.
- Steele BW, Lucas FJ, and Carter, JH. The measurement of proteolytic enzymatic activity of lymphocytes of hospitalized HIV-1 patients by flow cytometry(abst). Clin Chem 39: 1158-1159, 1993.
- Steele BW, Bandstra E, Wu N, Hearn L, Coyne T, and Burkett G: The use of meconium to detect cocaine exposure as compared with maternal and neonatal urine analyzed by five methods.(abst) Clin Chem 38:1011, 1992.
- Lucas F, Galiounghi A and Steele B: Flow Cytometric Analysis of Digoxin Receptors in Lymphocytes(abst.) Clin Chem 36: 1031, 1990
- Lucas F, Bedevia J., Ho S, Hoff P. and Steele B. Flow Cytometric Analysis of THC Receptors in Lymphocytes (abst.) Clin Chem 36: 1024, 1990

Wunsch C and Steele B.: The Task of Validating a Random Access Analyzer, the Ektachem 500, in a Clinical Setting.(abst.) Clin Chem 36: 1013, 1990.

Steele BW, Lucas FJ, and Ho S: Flow cytometric analysis of cocaine receptors in lymphocytes (abst). Am J Clin Pathol, 92:577, 1989.

Bandstra ES, Steele BW, Burkett Gr, et al: Prevalence of perinatal cocaine exposure in an urban multi-ethnic population (abst). Pediatr Res, 25:247A, 1989.

Steele B, Bell M, Campbell M, and Lucas F: A report of a high incidence of appearance/disappearance of macro ck type one in a hospital population(abst). Clin Chem 35:1123, 1989

Otrakji CL, Steele BW, and Ruben B: Lack of utility of lipase levels in the diagnosis of pancreatitis in neurosurgical intensive care unit patients(abst). Am J Clin Pathol, 90:504.

Steele BW, Bell M and Lucas F: Confirmation of antimouse antibody and its effect on CK-MB determinations in a large county hospital(abst). Clin Chem, 34:1311, 1988.

Steele BW, Buechter KJ, and Arnold M: Ektachem lipase levels in blunt abdominal trauma(abst). Clin Chem, 34:1290, 1988.

Nelson LD, Steele B and Hudson-Civetta, J: Effect of pulse oximetry derived functional oxyhemoglobin saturation on calculated oxygen transport parameters(abst). Crit Care Med, 16:432, 1988.

Steele BW, Nelson LP, and Hudson-Civetta J: Comparison of percent functional oxyhemoglobin saturation by pulse oximetry and oxyhemoglobin saturation in critically ill patients(abst). Clin Chem, 33:939, 1987.

Angood PB, Nelson LD, Murtha M, and Steele B: Ca<sup>++</sup>-an effective short-term inotrope? (abst) Crit Care Med 15:430, 1987.

Jonas M, Schiff ER, O'Sullivan MJ, De Medina M, Reddy KJ, Jeffers LJ, Fayne T, and Steele B. The importance of prescreening all pregnant women for hepatitis b surface antigen in a large municipal hospital (abst). Hepatology 6:1224, 1986.

Nelson LD, Steele BW, and Anderson HB. Alterations in calculated P50 in critically ill patients (abst). Crit Care Med, 14:381, 1986.

Steele BW, Penso C, Paz J, Beydon, S: Urinary n-acetyl-glucosaminadase levels in pregnancy and pre-eclampsia (abst). Clin Chem 31:1006, 1985.

- Sultan S, Zilleruelo G, Bancalari B, Steele B and Strauss J. Fractional bicarbonate excretion in low birth weight infants with metabolic acidosis(abst). *Pediatr Res*, 16:329A, 1982.
- Schwartz T, and Steele BW: A kinetic automated assay for urinary N acetyl-b-d-glucosaminadase (abst). *Clin Chem* 29:1159, 1983.
- O'Connell MT, Steele BW, Becker DM, Peterson G and Hellman R: Survey of fibronectin levels in a medical intensive care unit (abst). *Clin Res*, 31:2594, 1983.
- Chemello F, Blanco R, Steele B, and Castro A: An improved estriol radioimmunoassay (abst). *Clin Chem* 28:1639, 1982.
- Hills LP, Callazo JT, Steele BW, Hellman RL, Civantos F, and Noto TA. An automated nephelometric assay for plasma fibronectin (abst). *Clin Chem* 28:1634, 1982.
- Gannett R, Steele BW, Civantos F, and O'Connell M. Automation of an immediate read bromcreasol green (BCG) albumin method using a modified Abbott ABA-100 (abst). *Clin Chem*, 28:1629, 1982.
- Cyd A, Steele BW, and Castro A. Comparison of a new fluorescent immunoassay(FIA), RIA, EMIT and hplc method for theophylline (abst). *Clin Chem*, 26:969, 1980.
- Quarforth G, Steele BW, Anderson RM, and Ahmed K. Improved procedure for measurement of  $\text{Na}^+$ ,  $\text{K}^+$  ATPase inhibition in patients on digoxin therapy: correlation with serum digoxin levels(abst). *Clin Chem*, 24:1055, 1978.
- Steele BW, Koehler DF, Azar MM, Kuba K and Dempsey ME. The use of enzymatic reagents for the estimation of low density lipoprotein cholesterol without use of preparative ultracentrifuge (abst). *Clin Chem*, 23:1131, 1977.
- Perry, HM, Schnaper H, Fitz A, Frolich E, Steele BW et al. effect of chlorthalidone on serum cholesterol in a double-blind cooperative study of mild hypertension (abst). *Clin Res*, 24:583A, 1976.
- Steele BW, Yasmineh WG and Cohn JN. CK-MB in the estimation of myocardial infarct size (abst). *Clin Chem*, 22:1201, 1976.
- Steele BW, Nord M and Statland BE. Comparative effects of DEA versus AMP Buffer on Alkaline phosphatase isoenzymes (abst). *Clin Chem*, 22:1221, 1976
- Yasmineh WG, Hanson NG, Steele BW, and Niazi ZE. Assessment of myocardial damage by the chromatographic isolation of CPK isoenzymes and their quantitation on a centrifugal analyzer (abst). *Am J Clin Path*, 63:761, 1975.

Gobel F, Steele B and Yasmineh WG. The effect of cardiac catheterization and exercise stress testing on serum CPK isoenzyme activity (abst). Clin Res, 23:471A, 1975.

Yasmineh WG, Pyle RB, Hanson NW, Steele BW, Nicoloff DM, and Cohn JN. CPK-MB compared to CPK-MM in estimation of myocardial infarct size (abst). Clin Res, 23:514A, 1975.

Gobel F, Steele BW and Yasmineh WG. The effect of cardiac catheterization and exercise stress testing on serum CPK isoenzyme activity (abst). Circulation, 52:111, 1975.

O'Carrol D, Statland BE, Steele BW, and Burke D. The usefulness of chemical inhibition in determining the alkaline phosphatase isoenzymes (Abst). Clin Chem, 20:887, 1974.

## V. PROFESSIONAL

### FINANCIAL SUPPORT TO THE UNIVERSITY OF MIAMI (PAST 5 YEARS)

Proprietary information has been deleted.

### PROFESSIONAL AND HONORARY ORGANIZATIONS

College of American Pathologists	1991-present
Laboratory Accreditation Program -	
Inspector	1971-present
Inspection Team Leader	1991-present
Deputy Division Commissioner for S. Florida	1999-2001
Endocrine/Therapeutic Drug Monitoring Resource Committee	
Advisor, Harmonization Project	2003
Member	1995-2002
Leader, Duplicate study subcommittee	1996-2002
Liaison, Lab Accreditation Program	1999-present
American Association for Clinical Chemistry	1972-present
Florida Section	
Secretary	2003-2004
Member, Board of Directors	1998-2003
Editor, Newsletter	1996-2003
Councilor (Delegate)	1990-1995
President	1988-1989
Program Chairman	1988
Treasurer	1982

## National

Member, Nominating Committee	1999-2000
Florida Representative to the National AACC House of Delegates	1990-1995
Member, House of Delegates Steering Committee	1995
Member, Divisions Management Group	1993-1995
Member, House of Delegates Local Section Committee	1991-1994
Member, National Committee for Laboratory Utilization	1989-1990
Member, Abstract Selection Committee for the Annual National Meeting	1988
Fellow of the National Academy of Clinical Biochemists	1998-present
Dade County Medical Society	1980-1997
Florida Medical Association	1980-1997
Education Program Director FSP-FMA State Meeting Hollywood, FL	. 1988
Florida Society of Pathologists	1980-1997
Member, Long Range Planning Committee	1988
South Florida Society of Pathologists	1999-Present
Academy of Clinical Laboratory Physicians and Scientists	1980-present
Fellow (---) was a recipient of a Young Investigator's Award.	---
Fellow, American Society of Clinical Pathologists	1988-present

HONORS AND AWARDS

Graduated Magna Cum Laude and Phi Beta Kappa

OTHER PROFESSIONAL ACTIVITIESPapers and Poster Presented

Lineback JA, Lim CE, Shen PF and Steele BW. Frequency of the hereditary hemochromatosis C282Y mutation in gestational patients of Hispanic and African ethnicity in South Florida (USA). International Federation for Clinical Chemistry, Florence, Italy, June 7, 1999.

Steele BW, Walls HC and Raymon LP. Flunitrazepam GC/MS confirmation in driving under the influence (DUI) urine samples: analytical challenges and a four year experience from Miami-Dade County, Florida USA. International Federation for Clinical Chemistry, Florence, Italy, June 8, 1999.

Raymon LP, Garri J, Kirton O, Shatz D, Walls HC, and Steele BW. Alcohol and drug use in emergency room (ER) admissions and driving under the influence (DUI) cases: a comparative study. Annual Meeting of the AACC, New Orleans LA, July 28, 1999.

Raymon LP, Steele BW, and Walls HC: Analytical confirmation vs DRE evaluation of cannabinoid use: a comparative study. American Academy of Forensic Sciences, 50th Anniversary Meeting San Francisco, CA, Feb 13, 1998.

Garri J, Kirton O, Armstrong J, Steele B et al. Alcohol and illicit drug use in urban level one trauma patients. American Association for Surgery of Trauma, Baltimore, MD, Sept 25, 1998.

Raymon LP, Steele BW, and Walls HC. Rohypnol in Dade County: patterns of use, psychomotor impairment, and results of Florida legislation. Society of Forensic Toxicologists 98 Annual Meeting, Albuquerque, NM, Oct. 8, 1998.

Smith J, Lucas F, and Steele BW. Flow Cytometry as a sensitive method to study cell function using Coulter® CellProbe™ reagents. Experimental Biology '97, The Annual Meeting of the American Physiological Society, the American Society for Investigative Pathology, and the American Society for Nutritional Sciences and the American Association of Anatomists, New Orleans, April 8, 1997.

Steele BW, Raymon, LP and Walls, HC. Analysis of urinary benzodiazepines and metabolites in "driving under the influence" cases: the need for gas chromatography/mass spectrometry. Annual Meeting of the AACC in Atlanta GA, July 22, 1997.

Jorda M, Mailhot S, Wu NCH, Cleary, T, and Steele BW: Identification of mycobacterial species from Bactec 7H11 by gas-liquid chromatography-mass spectrometry. ASCP/CAP Fall Meeting. Philadelphia, PA. Sept. 23, 1997.

Raymon LP, Maclure RG, Dickson PH, Steele BW, and Walls HC: Quantitation of Psychoactive Cannabinoids in urine samples from driving under the influence



arrests. Society of Forensic Toxicologists 97 Annual Meeting, Salt Lake City, UT, Oct. 8, 1997.

Steele BW, Bandstra, ES, WU, NC, and Hearn, WL. Meconium benzoylecgonine levels in Stillborn Premature Fetuses. ASCP/CAP Spring National Meeting, Boston, MA. April 21, 1996.

Steele BW, Lucas FJ, Jaffe GE, and Carter JH. Enzyme activities of WBC's in viral versus bacterial disease as measured by flow cytometry. Meeting of the International Federation for Clinical Chemistry, London, UK, July 9, 1996

Steele BW, Lucas FJ, Jaffe GE, and Carter JH. Patterns of enzyme activities of WBC's as measured by flow. AACC/CSCC 1996 Annual Meeting, Chicago, IL, July 30, 1996.

Walls HC, Steele BW, Maclure R, and Hearn, LW. The confirmation of benzodiazepines in DUI case by CG/MS. Annual Meeting of the Society of Forensic Toxicology, Denver, CO, October 17, 1996.

Hamilton M, Steele B, Kuylen N, Lucas F, and Carter J. The use of novel fluorogenic enzyme substrates to detect nucleated red blood cells American Association for Clinical Chemistry, Annual Meeting, Annual Meeting, Anaheim, CA, July 20, 1995.

Hamilton M, Steele B, Galiounghi A, Lucas F, and Carter J. Assessing newborn health using cord blood leukocyte enzyme activities detected with novel fluorigenic reagents. American Association for Clinical Chemistry, Annual Meeting, Annual Meeting, Anaheim, CA, July 20, 1995.

Steele B, Hamilton M, Griffen D, Lucas F, and Carter J. Differences in Leukocyte Enzyme Activity in HIV-1+ Patients with and Without TB. American Association for Clinical Chemistry, Annual Meeting, Annual Meeting, Anaheim, CA, July 20, 1995.

Steele BW, Bandstra ES, WU NC, and Hearn WL. Benzoylecgonine and other cocaine metabolites in the meconium of premature infants ASCP-CAP National Meeting, Seattle, WA, April 11, 1994.

Woodard MD, Steele BW, Shukla RS, Lucas FJ, and Carter JH. Neoplastic enzyme patterns by flow cytometry. Academy of Clinical Laboratory Physicians and Scientists, Annual Meeting, New Haven, CT, June 12, 1993.

Steele BW, Lucas FJ, and Carter JH: The measurement of proteolytic enzymatic activity of lymphocytes of hospitalized HIV-1 patients by flow cytometry. American Association for Clinical Chemistry, Annual Meeting, New York, NY, July 13, 1993.

Steele BW, Lucas FJ, and Carter JH: The flow cytometric measurement of proteolytic enzymatic activity of lymphocytes of septic patients. American Association for Clinical Chemistry, Annual Meeting, New York, NY, July 13, 1993.

Lucas FL, Galiounghi A, Carr SA, Landrum E, Hoff P, Carter J, Steele BW, and Whitcomb C.C. Measurement of proteolytic enzymatic activity of lymphocytes, monocytes and granulocytes by flow cytometry. American Association for Clinical Chemistry, Annual Meeting, Annual Meeting, New York, NY, July 14, 1993.

Woodard MD, Steele BW, Shukla RS, Lucas FJ, and Carter JH. Study of neoplastic enzyme patterns by flow cytometry. American Association for Clinical Chemistry, Annual Meeting, Annual Meeting, New York, NY, July 14, 1993.

Hamann S, Erickson K, Lott J, Steele B, and Keyes L. Multi-laboratory evaluation of the Kodak Ektachem 250 analyzer. American Association for Clinical Chemistry, Annual Meeting, Annual Meeting, New York, NY, July 14, 1993.

Steele BW, Hearn WL, Bandstra ES, Wu NC, Hime GW, and Moss JA. The detection of *m*-hydroxybenzoylecgonine and cinnamoylecgonine in meconium. American Association for Clinical Chemistry, Annual Meeting, Annual Meeting, New York, NY, July 15, 1993.

Hearn WL, Steele BW, Bandstra ES, WU NC, and Hime GW. *m*-Hydroxybenzoylecgonine: an important contributor to the immunoreactivity in assays for benzoylecgonine in meconium. Annual Meeting, Society of Forensic Toxicology, Phoenix, AZ, October 7, 1993

Steele BW, Bandstra E, Wu N, Hearn L, Coyne T, and Burkett G: The Use of Meconium to Detect Cocaine Exposure as Compared with Maternal and Neonatal Urine Analyzed by Five Methods. American Association for Clinical Chemistry, Annual Meeting, Chicago, IL, July 22, 1992.

Wunsch C and Steele B.: The Task of Validating a Random Access Analyzer, the Ektachem 500, in a Clinical Setting. American Association for Clinical Chemistry, Annual Meeting, San Francisco, CA, July, 1990.

Lucas F, Bedevia J., Ho S., Hoff P and Steele B: Flow Cytometric Analysis of THC Receptors in Lymphocytes. American Association for Clinical Chemistry, Annual Meeting, San Francisco, CA, July, 1990.

Lucas F, Galiounghi A and Steele B: Flow Cytometric Analysis of Digoxin Receptors in Lymphocytes. American Association for Clinical Chemistry, Annual Meeting, San Francisco, CA, July, 1990.

Buechter KJ, Arnold M, and Steele BW: Amylase and lipase in the evaluation of blunt abdominal trauma. Annual Meeting of the Southern Surgical Congress, Innisbrook, FL, Jan. 25, 1989.

Bandstra ES, Steele BW, Burkett Gr, et al: Prevalence of perinatal cocaine exposure in an urban multi-ethnic population . Society for Pediatric Research, Washington, DC, May 3, 1989.

Steele B, Bell M, Campbell M, and Lucas F: A report of a high incidence of appearance/disappearance of macro ck type one in a hospital population. American Association for Clinical Chemistry, Annual Meeting, Atlanta, GA, July, 1989.

Steele BW, Lucas FJ, and Ho S: Flow cytometric analysis of cocaine receptors in lymphocytes. American Society of Clinical Pathology, Washington, DC. Oct. 1989.

Nelson LD, Steele B and Hudson-Civetta J: Effect of pulse oximetry derived functional oxyhemoglobin saturation on calculated oxygen transport parameters. Society for Critical Care Medicine, Orlando, FL, June. 1, 1988.

Steele BW, Buechter KJ, and Arnold M: Ektachem lipase levels in blunt abdominal trauma. American Association for Clinical Chemistry, Annual Meeting, New Orleans, July, 1988.

Steele BW, Bell M and Lucas F: Confirmation of antimouse antibody and its effect on CK-MB determinations in a large county hospital. American Association for Clinical Chemistry, Annual Meeting, New Orleans, July, 1988

Otrakji CL, Steele BW, and Ruben B: Lack of utility of lipase levels in the diagnosis of pancreatitis in neurosurgical intensive care unit patients. American Society of Clinical Pathology, Las Vegas, NV, Oct, 1988.

Steele BW, Nelson LP, and Hudson-Civetta J: Comparison of percent functional oxyhemoglobin saturation by pulse oximetry and oxyhemoglobin saturation in critically ill patients. American Association for Clinical Chemistry, Annual Meeting, San Francisco, July 22, 1987.

Steele BW: Advances in Laboratory Equipment. A Case Study of Chemistry Automation. AACC Workshop-Advances in Laboratory Equipment-sponsored by Eastman Kodak. San Francisco, CA, July 22, 1987.

Nelson LD, Steele BW, and Anderson HB: Alterations in calculated P50 in critically ill patients. Society of Critical Care Medicine, Washington, DC, May 28, 1986.

Jonas M, Schiff ER, O'Sullivan MJ, De Medina M, Reddy KJ, Jeffers LJ, Fayne T, and Steele B: The importance of prescreening all pregnant women for hepatitis

b surface antigen in a large municipal hospital. American Association for the Study of Liver Diseases. Chicago, IL, November, 1986.

Voigt W, Sridhar KS, Amador A, Steele BW, and Groh EA: Prognostic significance of retinol binding protein in patients with advanced cancer. Third European Congress of Clinical Oncology, Stockholm, 1985.

Penso C, Abu-Hamad A, Steele BW, Paz J, Beydou, S: Urinary n-acetyl-b-d-glucosaminadase levels in normal and hypertensive pregnancies. Society of Perinatal Obstetricians, Las Vegas, 1985.

Steele BW, Penso C, Paz J, Beydon S: Urinary n-acetyl-glucosaminadase levels in pregnancy and pre-eclampsia. American Association for Clinical Chemistry, Annual Meeting, Atlanta, GA, July 24, 1985.

O'Connell MT, Steele BW, Becker DM, Peterson G and Hellman R: Survey of fibronectin levels in a medical intensive care unit. National Meeting AAP/ASCI/AFCR, Washington, DC, April 30, 1983.

Schwartz T, and Steele BW: A kinetic automated assay for urinary N acetyl-b-d-glucosaminadase. American Association for Clinical Chemistry, Annual Meeting, New York, NY, July 25, 1983.

Gannett R, Steele BW, Civantos F, and O'Connell M. Automation of an immediate read bromcreasol green (BCG) albumin method using a modified Abbott ABA-100. American Association for Clinical Chemistry, Annual Meeting, Anaheim, CA, August 11, 1982

Hills LP, Callazo JT, Steele BW, Hellman RL, Civantos F, and Noto TA: An automated nephelometric assay for plasma fibronectin. American Association for Clinical Chemistry, Annual Meeting, Anaheim, CA, August 11, 1982

Chemello F, Blanco R, Steele B, and Castro A: An improved estriol radioimmunoassay. American Association for Clinical Chemistry, Annual Meeting, Anaheim, CA, August 11, 1982.

Steele BW: Survey of Fibronectin Levels in a Medical Intensive Care Unit, Scientific Meeting of the Florida Section of AACC, Tampa, FL, Nov. 17, 1982.

Steele BW and Eason D: Experience with a micro hplc method for chloramphenicol in a large general hospital. Florida Section of AACC, Scientific Meeting, November 13, 1981.

Cyd A, Steele BW, and Castro A: Comparison of a new fluorescent immunoassay(FIA), RIA, EMIT and HPLC method for theophylline. American Association for Clinical Chemistry, Annual Meeting, Boston, MA, July 21, 1980.

Quarforth G, Steele BW, Anderson RM, and Ahmed K: Improved procedure for measurement of  $\text{Na}^+$ ,  $\text{K}^+$  ATPase inhibition in patients on digoxin therapy: correlation with serum digoxin levels. American Association for Clinical Chemistry, Annual Meeting, San Francisco, CA, July 25, 1978.

Perry HM Jr, Goldman AI, Schnaper HW, Fitz AE, Frolich ED, Steele BW, Richman HF, and Lavin MA: Effects of chlorthalidone and reserpine in the treatment of mild hypertension: induced changes with emphasis on blood pressure and Chemistry. WHO Conference on Mild Hypertension, Susono, Japan Sept. 23, 1978.

Perry HM, Schnaper HW, Lavin MI, Goldman AI, Fitz AE, Frolich ED, Richman HG and Steele BW: Evaluation of drug treatment in mild hypertension. New York Academy of Sciences, New York, NY, Feb 9, 1977.

Steele BW, Nord M and Statland, BE: Comparative effects of DEA versus AMP Buffer on Alkaline phosphatase isoenzymes American Association for Clinical Chemistry, Annual Meeting, Houston, TX, Aug. 5, 1976.

Steele BW, Yasmineh WG, And Cohn JN: CK-MB in the estimation of myocardial infarct size. American Association for Clinical Chemistry, Annual Meeting, Houston, TX, Aug. 5, 1976.

Steele BW, Koehler DF, Azar MM, Kuba K and Dempsey, ME: The use of enzymatic reagents for the estimation of low density lipoprotein cholesterol without use of preparative ultracentrifuge. American Association for Clinical Chemistry, Annual Meeting, Chicago, IL, July, 1976.

Gobel F, Steele B, and Yasmineh WG: The effect of cardiac catheterization and exercise stress testing on serum CPK isoenzyme activity. The American Federation for Clinical Research-Midwest Section, Chicago, IL, Nov. 6, 1975.

Yasmineh WG, Pyle RB, Hanson NW, Steele BW, Nicoloff DM, and Cohn JN: CPK-MB compared to CPK-MM in estimation of myocardial infarct size. The American Federation for Clinical Research-Midwest Section, Chicago, IL, Nov. 8, 1975.

Gobel F, Steele BW, and Yasmineh WG: The effect of cardiac catheterization and exercise stress testing on serum CPK isoenzyme activity. American Heart Association Scientific Session, Anaheim, CA, Nov. 18, 1975.

Yasmineh WG, Hanson NG, Steele BW, and Niazi ZE: Assessment of myocardial damage by the chromatographic isolation of CPK isoenzymes and their quantitation on a centrifugal analyzer. American Society of Clinical Pathology, Las Vegas, Nevada, Feb. 21, 1975.

O'Carrol D, Statland BE, Steele BW, and Burke D: The usefulness of chemical inhibition in determining the alkaline phosphatase isoenzymes. American Association for Clinical Chemistry, Annual Meeting , Las Vegas, Nevada, August 22, 1974

#### Other Presentations

Faculty, CAP Workshop "Emerging Analytes; Should these tests be in your lab?"  
San Diego, CA. September 13, 2003

Speaker, "CAP TDM Surveys-What they say about CLIA '88 Analytical Limits?"  
University of Miami Pathology Grand Rounds, Feb 6, 2003.

Speaker, "Cell counting performance by hematology analyzers: a critical evaluation," Beckman Coulter Symposia 2002. Atlanta, GA May 15 and Miami, FL, May 22, 2002.

Invited Speaker "Steroid Measurements: Insights from Proficiency Testing"  
American Cancer Society/CDC meeting on Steroid Testing in Epidemiological Studies Atlanta GA Dec 3, 2001.

Speaker, "Therapeutic Drug Monitoring,: Has CLIA '88 been a Detriment?"  
Florida Section AACC, Miami, FL March 15, 2001.

Lecturer, "Clinical Toxicology: the other Clinical Chemistry" given at Department of Pathology Seminar, Johns Hopkins School of Medicine, Oct 19, 1998.

Lecturer, "Myths and other truths about drug testing", Annual Conference of the Florida Coalition of Professional Laboratory Organizations, Dania, FL, April 2, 1998

Speaker, "Homocyst(e)ine levels: will they replace cholesterol?" Florida Section AACC-Tampa Subsection, Tampa, FL February 25, 1998.

Speaker, "Homocyst(e)ine levels: will they replace cholesterol?" Florida Section AACC, Miami, FL October 16, 1997.

Speaker, "Cocaine babies-Do they really exist" Annual Meeting, Florida Section AACC, Miami, FL, Sept. 15, 1995.

Speaker, "Cocaine babies-Do they really exist, and do we need to identify them?"  
University of Miami Pathology Grand Rounds, May 24, 1995.

Lecturer, "Personnel Standards", "Proficiency Testing", Quality Control".  
University of Miami/Jackson Memorial Hospital Workshop-Implementation Strategies for CLIA'88. (Co-sponsored by Florida Section AACC and Everglades Chapter CLMA) Miami Lakes, FL., Aug. 14, 1992

Speaker, "Drugs of Abuse Testing- Issues, Requirements and Liabilities". Florida Society of Pathologists Lecture for the Florida Medical Association Meeting, Bar Harbor, FL. Sept. 10, 1990

Instructor, Review and Update of Therapeutic Drug Monitoring (4hrs) ASCP Continuing Education Program, San Francisco, CA, May 26, 1989.

Speaker, "Report of HRS (State of Florida) Task Force on Drug Testing". Annual Meeting of the Laboratory Managers Association, Ft. Lauderdale, FL, May 17, 1989.

Panel Member. "Upcoming Legislation for the Clinical Laboratory". Annual Meeting of the Laboratory Managers Association, Ft. Lauderdale, FL, May 17, 1989.

Speaker, "Report of HRS (State of Florida) Task Force on Drug Testing". Joint Annual Spring Convention-Florida Medical Technology, Ft. Lauderdale, FL, May 6, 1989.

Instructor, Workshop for DNA Probes. 12th Annual Review of Recent and Practical Advances in Pathology, University of Miami and University of Florida, Miami Beach, FL, January 28, 1987.

Invited Speaker, "Failure of CDC Criteria to Identify Hepatitis B in an Obstetrical Population". State of Minnesota, Department of Public Health, Minneapolis, MN, Oct 20, 1986.

Invited Speaker, "Nonisotopic Immunoassays". National Meeting of the Clinical Ligand Society, March 16, 1983, Philadelphia, PA.

Lecturer, "Monitoring Drugs of Abuse". American Dade Corporation Symposium on Drug Monitoring, Miami, FL, April 23, 1981.

Instructor, 6th Annual Review of Recent Advances in Pathology, February 6, 1981, Bal Harbor, FL. Workshop: Therapeutic Drug Monitoring Assays.

Instructor, University of Miami, Laboratory Aspects of Myocardial Infarction. Department of Medicine's 7th Annual Review Course for Certification and Rectification in Internal Medicine, Bal Harbor, FL, Aug. 4, 1980.

Instructor, ASCP Workshop-Quality Control, University of Arizona Medical Center, Tucson, Arizona, Jan, 1974.

## VI. TEACHING

COURSES (University of Miami)

BME 501 (Unified Medical Services)  
Biomedical Engineering

1997-2001

TEACHING SPECIALIZATION:

VII. SERVICE

UNIVERSITY COMMITTEE AND ADMINISTRATIVE RESPONSIBILITIES:

Member, Florida Atlantic Scholars Program	2003
Member, Medical School Admissions Committee	2000-present
Member, Pathology, Department Advisory Committee	2001- present
Member, Pathology, Incentive Committee	2001- 2003
Consultant, Florida Poison Center – Miami	2001- present
Member, Coulter Building Advisory Committee	2001-present
Member, Medical Campus Radiation Safety Sub-Committee	1999-present
Member, Laboratory Information System Steering Committee	1998-2002
Member, Medical Policy Subcommittee of the Pharmacy and Therapeutics Committee	1993-present
Member, Advisory Board of Poison Information Center,	1990-1998
Director, Quality Assurance for Pathology Jackson Memorial Hospital	1989-1994
Alternate, Professional Income Plan	1988-1995
Medical Advisor, Medical Technology Continuing Education Program, Jackson Memorial Hospital	1987-1996
Member, Pharmacy and Therapeutics Committee Jackson Memorial Hospital	1982-present
Member, Non-Human Radiation Safety Committee, University of Miami	1981-1999
Director, Clinical Pathology Resident Training	1980-1988



Program, University of Miami	
Member, Professional Income Plan University of Miami	1979-1981
Member, Pathology Residency Committee University of Miami	1979-1981
Member, University of Minnesota Department of Laboratory Medicine and Pathology Residency Committee	1977-1978
Member, Minneapolis Veterans Administration Committee on Hospital Laboratory Utilization	1977-1978

#### OTHER PROFESSIONAL INFORMATION OR ACTIVITIES

##### Other Activities

Member, NCCLS Subcommittee on Free (non- protein bound) Hormones	2001-present 1998-1999
Invited Reviewer-Life Sciences	1994
Member, State of Florida's Department of HRS's Task Force on Flow Cytometry	1990.
Chairman, Task Force on Drug Testing for the Advisory Board of the Department of Health & Rehabilitative Services (HRS-State of Florida)	1988.